



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>7</sup> :</b> <b>C07D 207/09, A61K 31/40, C07D 295/12, A1</b> <b>A61K 31/535, A61P 9/06, 23/00, 25/00</b>	<b>(11) International Publication Number: WO 00/51981</b>  <b>(43) International Publication Date: 8 September 2000 (08.09.00)</b>
<b>(21) International Application Number:</b> PCT/CA00/00217  <b>(22) International Filing Date:</b> 3 March 2000 (03.03.00)  <b>(30) Priority Data:</b> 60/122,858 4 March 1999 (04.03.99) US  <b>(71) Applicant (for all designated States except US):</b> NORTAN PHARMACEUTICALS INC. [CA/CA]; 3650 Westbrook Mall, Vancouver, British Columbia V6S 2L2 (CA).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> BEATCH, Gregory, N. [CA/CA]; 3393 West 27th Avenue, Vancouver, British Columbia V6S 1P5 (CA). LONGLEY, Cindy, J. [CA/CA]; 4621 West 6th Avenue, Vancouver, British Columbia V6R 1V6 (CA). WALKER, Michael, J. A. [CA/CA]; 5176 Connaught Drive, Vancouver, British Columbia V6M 3G3 (CA). WALL, Richard, A. [CA/CA]; 3181 West 24th Avenue, Vancouver, British Columbia V6L 1R7 (CA).  <b>(74) Agents:</b> NASSIF, Omar, A. et al.; Gowling, Lafleur Henderson LLP, Suite 4900, Commerce Court West, Toronto, Ontario M5L 1J3 (CA).	<b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW. ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
<b>(54) Title:</b> AMINOCYCLOALKYL CINNAMIDE COMPOUNDS FOR ARRHYTHMIA AND AS ANALGESICS AND ANESTHETICS	
<b>(57) Abstract</b>  Aminocycloalkyl cinnamide compounds (I) are disclosed. The compounds of the present invention may be incorporated in compositions and kits. The present invention also discloses a variety of <i>in vitro</i> and <i>in vivo</i> uses for the compounds and compositions, including the treatment of arrhythmia and the production of local analgesia and anesthesia. n=1-4; R <sub>1</sub> , R <sub>2</sub> , R <sub>3</sub> , R <sub>4</sub> , R <sub>5</sub> , R <sub>13</sub> , X and A are as in claim (1).	